WHAT IS CLAIMED IS:

- 1. An aqueous ink composition comprising at least water, a pigment dispersed by polymer, a sulfonyl group-containing (co)polymer, and an ultra-penetrating agent.
- 2. The aqueous ink composition according to claim
 1, wherein the sultonyl group-containing (co)polymer is
 present in the form of an emulsion.
- 3. The aqueous ink composition according to claim 1, wherein the sulfonyl group-containing (co)polymer is at least one of a diene-based, sulfonyl group-containing (co)polymer and a non-diene-based, sulfonyl group-containing (co)polymer.
- 4. The aqueous ink composition according to claim 3, wherein the non-diene-based, sulfonyl group-containing (co)polymer is an acryl-based, sulfonyl group-containing (co)polymer.
- 5. The aqueous ink composition according to claim 4, wherein the pigment dispersed by polymer is a pigment dispersed in an aqueous medium by an acrylic (co)polymer having an acid value of 100 or more.

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- 6. The aqueous ink composition according to claim
 1, wherein the ultra-penetrating agent is at least one
 compound selected from the group consisting of acetylene
 glycol compounds, acetylene alcohol compounds, and glycol
 ether compounds.
- 7. The aqueous ink composition according to claim
 1, wherein the ultra-penetrating agent is a combination
 of a compound represented by the following formula (1)
 and triethylene glycol monobutyl ether:

wherein, $0 \le m + n \le 50$, and R^1 , R^2 , R^3 and R^4 each independently is an alkyl group.

- 8. A recording process comprising recording an image by an ink jet recording process using an aqueous ink composition according to claim 1.
- An ink cartridge containing an aqueous ink
 composition according to claim 1.

10. A recorded article having an image recorded by an aqueous link composition according to claim 1.